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08/090002

1.4 kb—



Figure 1

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1 CCCTTCTCCAGGGACTCTGGCTGCCAGCAGCTCCGCCTTTCAGATCAATTCTCGACCACC 60
61 CACCTTGGGACTGCCGCCCAGTCCTGCCCTCTGGATCAGTGGGGTCCAGACACGCCCCCT 120
121 CCAGGACCTCAAAGCACCCCCGACCTAAGGTCACCAGCCCACTGGCCCCAGACGCAGTGG 180
181 GCTCCGCTGACTCTCTTGGACACCTCCTGGGAGGAAAATGCTCCCTGTCTGCCATCGTTT 240
M L P V C H R F
241 TTGCGACCACCTCCTCCTCTGCTCTTGGCTGCCCTCGACGACCCTGGCCCCCGCGCCAGC 300
C D H L L L L L L L P S T T L A P A P A
301 ATCCATGGGCCCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGGAG 360
S M G P A A A L L Q V L G L P E A P R S
361 CGTCCCCACACACCGACCTGTGCCTCCTGTCTGCTGGCGCCTATTCCGTGCGCGTGACCC 420
V P T H R P V P P V M W R L F R R R D P
421 CCAGGAGGCCAGAGTGGGACGCCCTCTGCGGCCATGCCACGTGGAGGAACTAGGGGTGCG 480
Q E A R V G R P L R P C H V E E L G V A
481 CGGAAACATTGTGCGCCACATCCCCGACAGCGGTCTGTCTCCAGGCCCGCACAACCCGC 540
G N I V R H I P D S G L S S R P A Q P A
541 CAGGACCTCGGGGCTGTGCCCCGAGTGGACAGTCGTCTTTGACCTGTGGAATGTGGAGCC 600
R T S G L C P E W T V V F D L S N V E P
601 CACAGAGCGCCCAACACGCGCGCTTAGAGTTGCGGCTGGAGGCTGAGTGTGAAGATAC 660
T E R P T R A R L E L R L E A E C E D T
661 AGGAGGGTGGGAGCTAAGCGTGGCACTGTGGGCGGACGCAGAGCATCCAGGGCCTGAGCT 720
G G W E L S V A L W A D A E H P G P E L
721 GCTGCGCGTGCCGGCGCCACCAGGGGTGCTCCTGCGCGCAGACCTACTGGGGACTGCAGT 780
L R V P A P P G V L L R A D L L G T A V
781 AGCCGCCAACGCATCAGTGCCCTGTACTGTGCGCCTGGCGCTGTCACTGCACCCTGGGGC 840
A A N A S V P C T V R L A L S L H P G A
841 CACTGCAGCCTGTGGGCGCCTGGCTGAGGCCTCCCTGCTGCTGGTGACGCTGGACCCACG 900
T A A C G R L A E A S L L L V T L D P R
901 CCTGTGTCCCTTGCCGCGATTGCGGCGCCACACGGAGCCAGGGTAGAAGTTGGTCCAGT 960
L C P L P R L R R H T E P R V E V G P V
961 GGGCACTTGTGCTACCCGACGGTTGCATGTGAGCTTCCGTGAGGTGGGCTGGCACCGTTG 1020
G T C R T R R L H V S F R E V G W H R W
1021 GGTGATCGCGCCGCTGGCTTCTAGCCAACTTCTGCCAGGGCACGTGCGCACTACCCGA 1080
V I A P R G F L A N F C Q G T C A L P E
1081 AACGCTGAGGGGACCCGGCGGGCCGCTGCACTCAACCACGCTGTGCTGCGCGCGCTCAT 1140
T L R G P G G P P A L N H A V L R A L M
1141 GCACGCAGCTGCTCCACCCCGGGTGCAGGCTCGCCCTGCTGCGTGCCAGAGCGTCTATC 1200
H A A A P T P G A G S P C C V P E R L S
1201 ACCCATCTCCGTGCTCTTCTTCGACAATAGTGACAACGTGGTCCCTGCGACACTACGAAGA 1260
P I S V L F F D N S D N V V L R H Y E D
1261 CATGGTGGTGGATGAGTGTGGCTGCCGTTGACCACCCGGGACACCCTTTCAGGGACCGCC 1320
M V V D E C G C R
1321 CCACGCAAAAGCAGGGACTGTTTGTTCATGTTTTATTGGTGACAAAAAGCTTAAACAAA 1380
1381 TTTGACT 1387

GDF-1 RRRHTEPRVEVG--PVGTRTRRLHVSE-REVGWHRWVIAPRGFLANFQGTALPETLRGPGGPP
 Vg-1 RKRSYSKLPFT--ASNIKKRRHLYVEE-KDVGWONWVIAPQGYMANYEYGECP-YPLTEILNG--
 Vgr-1 GSGSSDYNGSE--LKTAQKKHLYVSEF-QDLGWQDWIIAPRGYAANYEDGEC-SFPLNAHMNA--
 BMP-2a KROAKHKQRKR--LKSSKKRHLVYVDF-SDVGWQDWIAPPYGYAFYCHGEC-P-FPLADHLNS--
 BMP-3 SPKHHQQRARK--KNKNCRRHSLVYVDF-SDVGWQDWIAPPYGYAFYCHGEC-P-FPLADHLNS--
 DPP TLKKARRKQWI--EPRNCRRHSLVYVDF-ADIGWSEWIIAPKSFDAFYCHGEC-P-FPMPKSLKPS--
 MIS -HARRPTRRKN--HDDTCRRHSLVYVDF-SDVGWQDWIAPPYGYAFYCHGEC-P-FPLADHLNS--
 Inhibin α GRAQRSAGATA--ADGPRALRELSVDLRAE---RSVLIPETIYQANNQGVGGPQSDRNPY--
 Inhibin β RLLQRPPEPA--AHANQHRVALNISF-QELGWERWIVYPPSFIHYCHGECGLHIPNLSLPV--
 Inhibin β GLE---CDGKV---NICD-KKQEFFVSF-KDIGWQDWIIAPSGYHANYCEGECPSHIACTSGSSL-
 TGF-31 GLE---CDGRT---NLCC-ROQFFIDF-RDIGWQDWIIAPTGYGNYCEGECPAYLAGVPGSAS-
 TGF-32 ALDNTYCFSSST--EKNCQVRQ-LYIDFKRDLGWK-WIHEPKGYHANFCLGCP-P-YIW---SLD-
 TGF-33 ALDAAAYCFERNV--QDNCCVRP-LYIDFKRDLGWK-WIHEPKGYHANFCLGCP-P-YIW---SSD-
 TGF-34 ALDNTYCFERNV--EENCQVRP-LYIDFKRDLGWK-WIHEPKGYHANFCLGCP-P-YIW---SAD-
 TGF-35 GVGQEYCFGNN--GPNCQVRP-LYIDFKRDLGWK-WIHEPKGYHANFCLGCP-P-YIW---SMD-

GDF-1 ALNHAVLRALMHAAA-PTPGAGSPCCV--PERLSPISVLFF-DNSDNVVLRYHEDMVVDECCCR
 Vg-1 -SNHAILOTLVHS--IEPEDILPCCV--PTKMSPISMLFY-DNNDNVVLRYHENMAVDECCCR
 Vgr-1 -TNHAILOTLVHL--MNPEYVPKPCCA--PTKLNIAISVLYF-DDNSNVILKKYRNMMVRA--CCCH
 BMP-2a -TNHAILOTLVNS--VNSKIPKACCV--PTELSAISMLYL-DENEKVLKKNYQDMVVEG--CCCH
 BMP-3 -TNHAILOTLVNS--VNSSIPKACCV--PTELSAISMLYL-DEYDKVLKKNYQDMVVEG--CCCH
 DPP -TNHAILOTLVNS--VNSKIPKACCV--PTELSAISMLYL-DEYDKVLKKNYQDMVVEG--CCCH
 MIS -TNHAILOTLVNS--VNSKIPKACCV--PTELSAISMLYL-DEYDKVLKKNYQDMVVEG--CCCH
 Inhibin α -GNH-VVLLL-KMQARGAALARPCCV--PTQDLSVAMLYLND-QSTVVLKKNYQDMVVEG--CCCH
 Inhibin β -PGAPPT---PAQPSYSLPGAQPCCV--PTAYAGKLLISLSEER--ISAHHVFNMVATECCCH
 Inhibin β -SEHSTVINHYMRGHSFANLKSQCV--PTKLRPMMLY-DGQNIIVKRDVFNMIIVEECCCH
 TGF-31 -SFHTAVVQYMRGHLNPGT-VNSQCV--PTKLRPMMLY-DGQNIIVKRDVFNMIIVEECCCH
 TGF-32 -TOYSKVLALYN--QHNPGASAPCCV--POALEPLFIYVY-VGRKPKV-EQLSNMIVKSC--CCCH
 TGF-33 -TQHSRVLSLYN--TINPEASAPCCV--SODLEPLTILYV-IGKTPKI-EQLSNMIVKSC--CCCH
 TGF-34 -THTSTVLGLYN--TINPEASAPCCV--PODLEPLTILYV-IGKTPKI-EQLSNMIVKSC--CCCH
 TGF-35 -TOYTKVLALYN--QHNPGASAPCCV--POTLDPLPIIYV-VGRTPKV-EQLSNMIVKSC--CCCH
 TGF-35 -TOYSKVLALYN--QHNPGASAPCCV--PDVLEPLPIIYV-VGRTPKV-EQLSNMIVKSC--CCCH

Figure 3a

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	GDF-1	Vg-1	Vgr-1	BMP-2a	BMP-2b	BMP-3	DPP	MIS	Inhibin α	Inhibin βA	Inhibin βB	TGF- $\beta 1$	TGF- $\beta 2$	TGF- $\beta 3$	TGF- $\beta 4$	TGF- $\beta 5$
GDF-1	100	52	40	38	39	41	34	33	22	31	31	26	27	30	26	26
Vg-1	-	100	59	59	57	45	49	27	23	45	40	34	35	38	33	35
Vgr-1	-	-	100	62	59	43	57	26	23	45	39	35	37	38	37	37
BMP-2a	-	-	-	100	92	44	73	26	20	42	37	34	34	35	33	33
BMP-2b	-	-	-	-	100	44	74	27	21	41	37	33	34	35	33	33
BMP-3	-	-	-	-	-	100	42	25	28	33	33	29	31	31	26	28
DPP	-	-	-	-	-	-	100	25	20	39	36	35	35	35	35	34
MIS	-	-	-	-	-	-	-	100	18	22	22	24	21	26	25	24
Inhibin α	-	-	-	-	-	-	-	-	100	23	21	24	23	24	24	24
Inhibin βA	-	-	-	-	-	-	-	-	-	100	63	38	37	36	35	38
Inhibin βB	-	-	-	-	-	-	-	-	-	-	100	35	35	36	34	32
TGF- $\beta 1$	-	-	-	-	-	-	-	-	-	-	-	100	73	77	85	81
TGF- $\beta 2$	-	-	-	-	-	-	-	-	-	-	-	-	100	81	68	69
TGF- $\beta 3$	-	-	-	-	-	-	-	-	-	-	-	-	-	100	74	73
TGF- $\beta 4$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	78
TGF- $\beta 5$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100

Figure 3b

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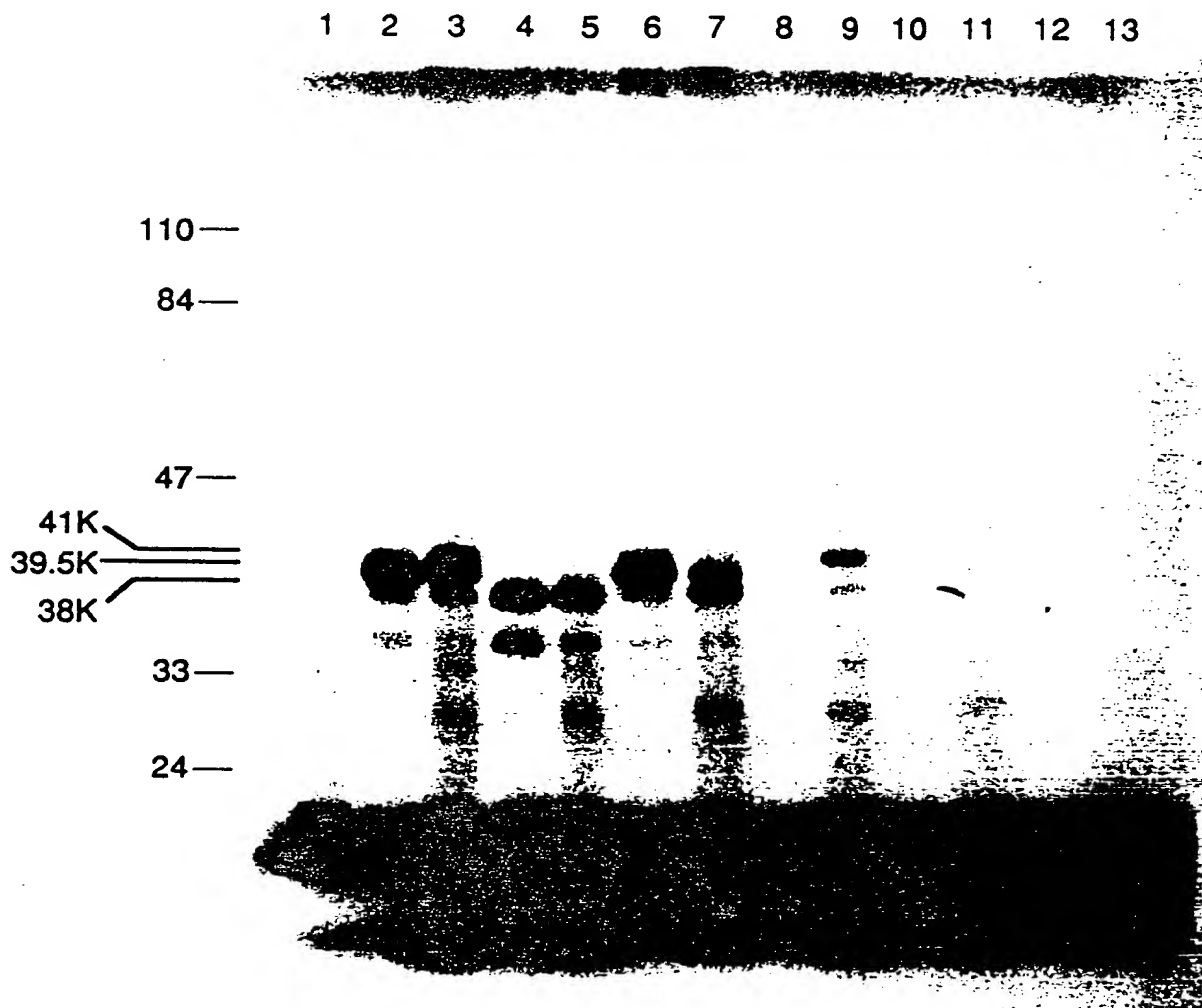


Figure 4

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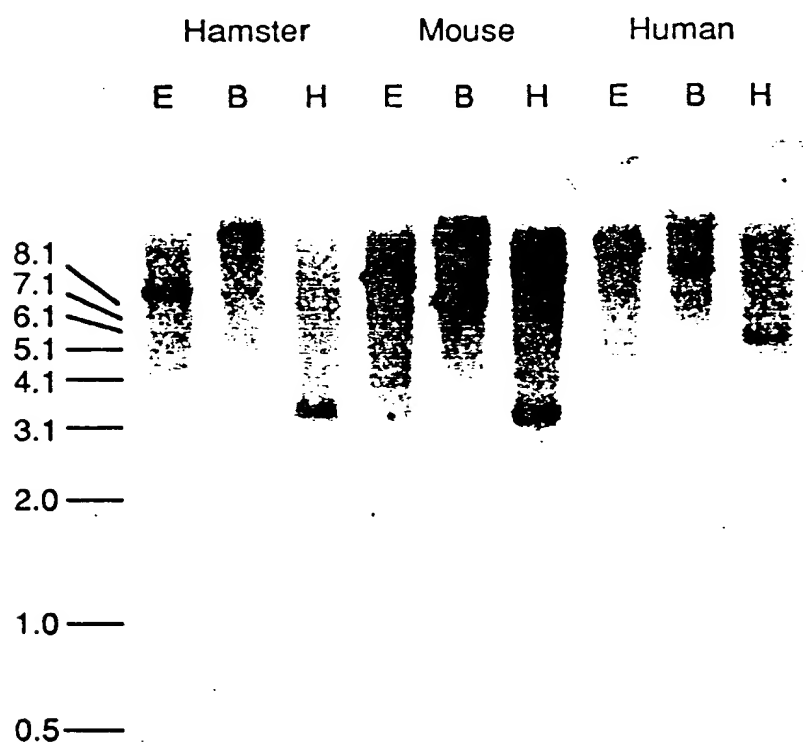


Figure 5

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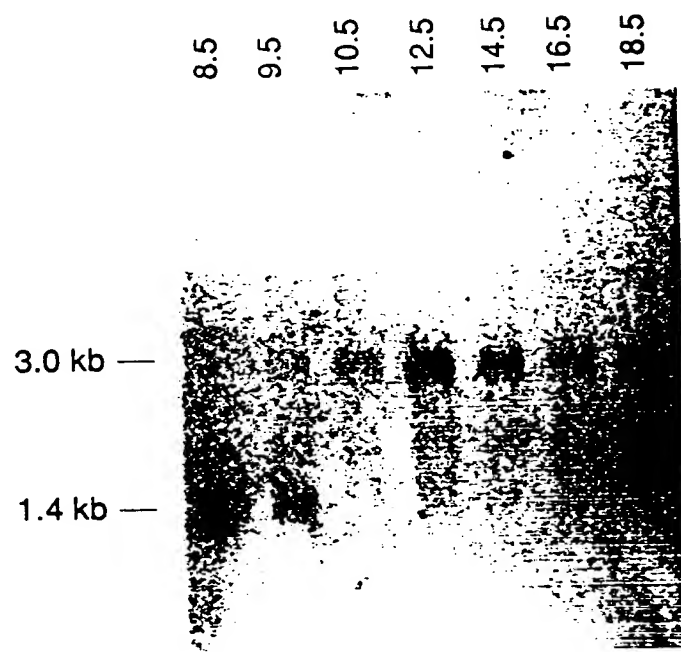


Figure 6

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10.5 d placenta
testis
seminal vesicle
ovary
oviduct
uterus
brain
thymus
heart
lung
kidney
adrenal
spleen
liver
intestine
pancreas

3.0 kb —

Figure 7

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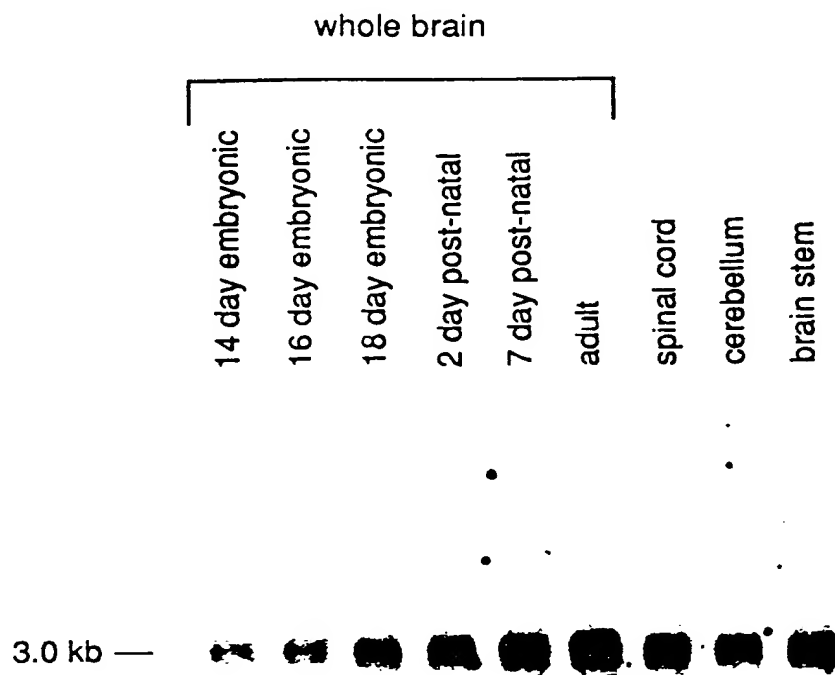


Figure 8

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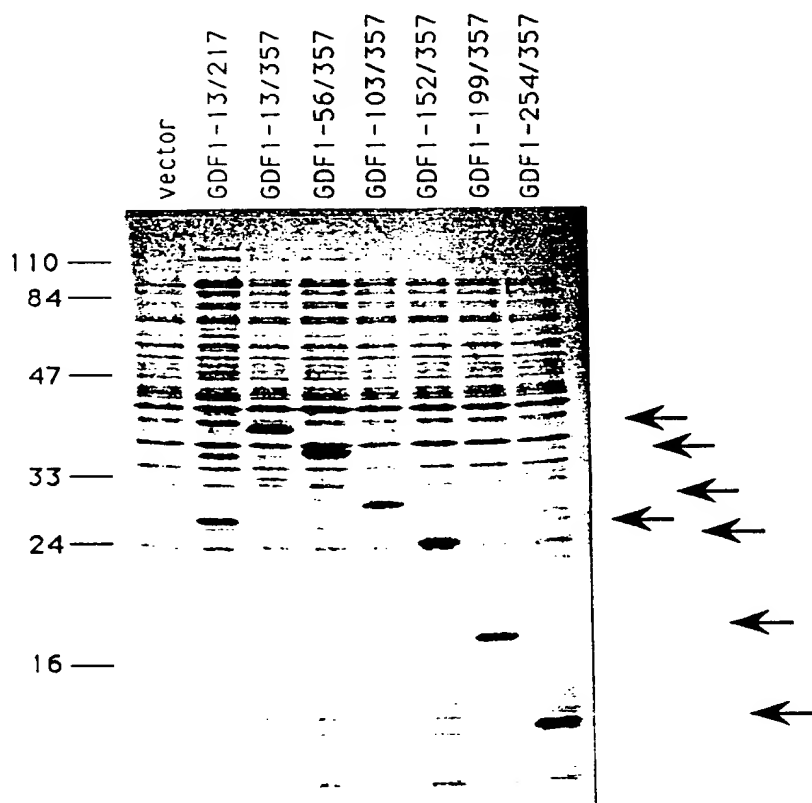


Figure 9

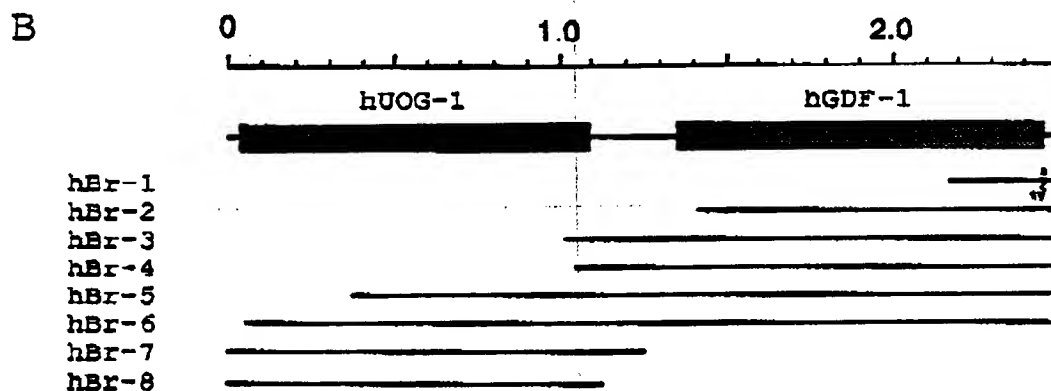
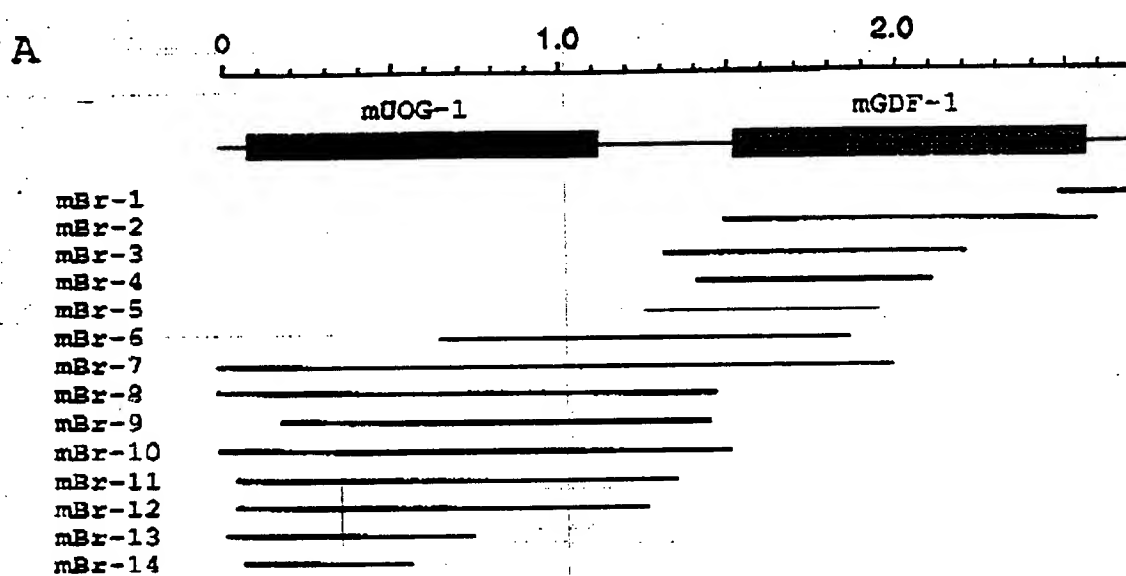


Figure 10

1 GCGCGTGACGCGAGGGCGCGCGGCGACTCGGACCGGTGCAGGCAACAGCGGAGACAGCGG 60
61 AGAATTGGATAGCATGGCTGCTGCCGCGGCGACCCAGGCTCGAGGCGCCAGAGCCCAT 120
M A A A A A A T P R L E A P E P M
121 GCCGAGTTATGCGCAGATGTTGCAACGAAGCTGGGCTCGGCGCTGGCGGCGGCTCAGGG 180
P S Y A Q M L Q R S W A S A L A A A Q G
181 CTGCGGGGACTGCGGCTGGGACTGGCGCGCGCGGCTGGCGGAGCACGCGCACCTGGC 240
C G D C G W G L A R R G L A E H A H L A
241 TGCACCGAGCTGCTGCTGGCCGTGCTCTGCGCTCTGGGGTGACAGCGTTGGCTGGG 300
A P E L L L L A V L C A L G W T A L R W A
301 AGCCACCACACATCTTTGCGCCCTGGCCAAGCGGTGCTGCTGACGCTAGAGATGC 360
A T T H I F R P L A K R C R L Q P R D A
361 TGCCAGGTTACCTGAGAGCGCTGGAAGCTTCTGTTCTACTTGGCTGTTGGAGCTACTG 420
A R L P E S A W K L L F Y L A C W S Y C
421 CGCTTACCTGCTCTGGGACCACTTATCTTTCTTCCATGACCCGCTCTGCTCTCTA 480
A Y L L L L G T S Y P F F H D P P S V F Y
481 TGACTGGAGGTGAGCATGGCAGTGCCTGGGACATCGCGGTGGCTTATTGCTGCAGGG 540
D W R S G M A V P W D I A V A Y L L Q G
541 GAGTTTCTACTGCCACTCCATCTATGCCACCGTGTACATGGACAGCTGGCGTAAGGACTC 600
S F Y C H S I Y A T V Y M D S W R K D S
601 GGTGGTCTGCTGGTGCATCAGTGGTCACTGCTCTCTCATTTGCTCTCTACGCTT 660
V V M L V H H V V T L L L I A S S Y A F
661 CCGGTACCACAACGTAGGCTCTCGTGTCTTCTGCTGATGACGTGAGCGATGTGAGCT 720
R Y H N V G L L V F F L H D V S D V Q L
721 GGAGTTCAAAAACCTCAACATCTACTTTAAGGCTAGGGGTGGTGCCTACCATCGCTTGA 780
E F T K L N I Y F K A R G G A Y H R L H
781 TGGGCTGGTGGCAACCTGGGCTGCCTCAGCTTCTGTTTCTGCTGGTTCTGGTTCCGCT 840
G L V A N L G C L S F C F C W F W F R L
841 CTACTGGTTCCGCTCAAGGTTCTGTACGCCACTTGGCACTGACGCTGAGCTGTGTGCC 900
Y W F P L K V L Y A T C H C S L Q S V P
901 TGACATTCCGTACTACTTCTTCTCAACATTCTGCTGTGCTCTGATGGTCATGAACAT 960
D I P Y Y F F F N I L L L L M V M N I
961 CTATTGGTTCCTGTACATTGTGGCTTTCGAGCAAGGTGCTGACTGGTCAGATCGTGA 1020
Y W F L Y I V A F A A K V L T G Q M R E
1021 ACTGGAAGACTTGAGGAGTACGACACTCTGGAAGCTCAGACAGCCAAGCCCTGCAAGC 1080
L E D L R E Y D T L E A Q T A K P C K A
1081 CGAGAAGCCACTGAGGAATGGCTGGTGAAGGACAAGCTCTTCTGAGTCTCTTGTCTCA 1140
E K P L R N G L V K D K L F
1141 ACTCAGCCATCCAGGACTCTATCCCATCTACCTGGGATACTGACTCCGCCCCCTGGAGA 1200
1201 CTCGACCCAGTCCCTGGAGGTCTGCTCCCAACCCCTGGAGGCCGGTCCCGCTTTGGCGG 1260
1261 CATGGCTCGCCCTAGGACAATAGCCCCGCCCTAAGATTAGGATGCTACCTTCTCCA 1320
1321 GGGACTCTGGCTGCCAGCAGCTCCGCTTTTCAGATCAATTTCGACCACTCCACCTTGGGA 1380
1381 CTGCGGCCAGTCTGCCCTCTGGATCAGTGGGGTCCAGACAGCCCCCTCCAGGACCTC 1440
1441 AAAGCACCCTGACCTAAGGTCAACAGCCCACTGGCCCCAGACGAGTGGGCTCCGCTGA 1500
1501 CTCTCTTGACACCTCTGGGAGGAAAATGCTCCCTGCTGCCATCGTTTTTGGGACCAC 1560
M L P V C H R F C D H
1561 CTCCTCTCTGCTCTTGCTGCCCTCGACGACCTTGGCCCCCGCGCCAGCATCCATGGG 1620
L L L L L L L L P S T T L A P A S M G
1621 CCCGCTGCCGCCCTGCTCCAGGTTCTTGGGCTTCCCGAAGCGCCCCGGAGCGTCCCCACA 1680
P A A A L L Q V L G L P E A P R S V P T
1681 CACCGACCTGTGCCCTCTGTGTCATGTGGCGCTATTCCGTGCGCGCAGCCCCAGGAGGCC 1740
H R P V P P V M W R L F R R R D P Q E A
1741 AGAGTGGGACGCCCTCTGCGGCCATGCCAGTGGAGGAAGTGGGGTCCGCGGAAACATT 1800
R V G R P L R P C H V E E L G V A G N I
1801 GTGCGCCACATCCCCGACAGCGGTCTGCTCCAGGCCCCGACAAACCCGCCAGGACCTCG 1860
V R H I P D S G L S S R P A Q P A R T S
1861 GGGCTGTGCCCGGAGTGACAGTCTGCTTTGACCTGTGCAATGTGGAGCCCACAGAGCGC 1920
G L C P E W T V V F D L S N V E P T E R
1921 CCAACACGCGCGCTTAGAGTTGCGGCTGGAGGTGAGAGTGAAGATACAGGGGGGTGG 1980
P T R A R L E L R L E A E / S E D T G G W
1981 GAGCTAAGCGTGGCACTGTGGGCGGACGACAGCATCCAGGGCTGAGCTGCTGCGCGTG 2040
E L S V A L W A D A E H P G P E L L R V
2041 CCGGCGCCACAGGGGTGCTCTGCGCGCAGACCTACTGGGAGTGCAGTAGCCGCCAAC 2100
P A P P G V L L R A D L L G T A V A A N
2101 GCATCAGTGCCTGACTGTGCGCTGGCGCTGTCTACTGCACCTGGGGCTGAGGACCC 2160
A S V P C T V R L A L S L H P G A T A A
2161 TGTGGGCGCTGGCTGAGGCTCCCTGCTGCTGGTGACGCTGGACCCAGGCTGTGTCCC 2220
C G R L A E A S L L L V T L D P R L C P
2221 TTGCCGCGATTGGCGCGCCACAGGAGCCAGGGTAGAAGTTGGTCCAGTGGGCACTTGT 2280
L P R L R R H T E P R V E V G P V G T C
2281 CGTACCCGACGCTGTCATGTGAGCTTCCGTGAGGTGGGCTGGCACCGTTGGGTGATCGG 2340
R T R R L H V S F R E V G W H R W V I A
2341 CCGCGTGGCTTCTAGCCAACCTTCTGCCAGGGCAGCTGCGCACTACCCGAAACGCTGAGG 2400
P R G F L A N F C Q G T C A L P E T L R
2401 GGACCCGCGGGCGGCTGCACTCAACACGCTGTGCTGCGCGCTCATGACGACGCT 2460
G P G G P P A L N H A V L R A L M H A A
2461 GCTCCCAACCCGGGTGAGGCTCGCCCTGCTGCGTGCCAGAGCGTCTATACCCATCTCC 2520
A P T P G A G S P C C V P E R L S P I S
2521 GTGCTCTTCTCGACAATAGTACAACGTGGTCTCGGACACTACGAAGACATGGTGGTG 2580
V L F F D N S D N V V L R H Y E D M V V
2581 GATGAGTGTGGTGGCTTGACCACCCGGGACACCTTTACGGGACCGCCCCAGCAAAA 2640
D E C G C R
2641 GCAGGGACTGTTTGTTCATGTTTTATTGGTGACAAAAGCTTAAACAAATTTGACTAAA 2700
2701 AATTAAGTTCC 2711

Fig 11A

murino

could be
cys

1 GGACACGGCGGGCGAGCGGGCGGTATGGCGGGCGGGGGCCCGCGGGCGGGGCGACGGGG 60
M A A A G P A A G P T G
61 CCCGAGCCCATGCCGAGCTACGCCGAGCTAGTGCAGCGCGGTGGGGCAGCGCGCTGGCG 120
P E P M P S Y A Q L V Q R G W G S A L A
121 GCGGCGGGGGCTGCACGAGCTGCGGCTGGGGCTGGCGCGTGGCGCGCTGGCTGAGCAC 180
A A R G C T D C G W G L A R R G L A E H
181 GCGCACCTGGCGCGCGGAGCTGCTGCTGCTGGCGCTGGCGCGCTGGGGTGGACCGCG 240
A H L A P P E L L L L A L G A L G W T A
241 CTGGCTCCGCGGCCACTGCGGCGCTCTTTCGGCCCCCTGGCGAAGCGGTGCTGCCCTCCAG 300
L R S A A T A R L F R P L A K R C C L Q
301 CCCAGAGATGCCGCAAGATGCCGAGAGCGCTTGAAGTTTCTCTTCTACCTGGGCAGC 360
P R D A A K M P E S A W K F L F Y L G S
361 TGGAGCTACAGTGCCTACCTGCTGTTGGCACCAGTACCCTTCTTCCATGACCCACCA 420
W S Y S A Y L L F G T D Y P F F H D P P
421 TCTGCTTCTACGACTGGAGCGCGGCATGGCAGTGGCAGGGACATTGCAGCCGCTAC 480
S V F Y D W T P G M A V P R D I A A A Y
481 CTGCTCCAGGGAAGCTTCTATGCCACTCCATCTACGCTACGCTATACATGGACACCTGG 540
L L Q G S F Y G H S I Y A T L Y M D T W
541 CGCAAGGACTCGGTGGTCACTGCTGCTCCACCAGTGGTCACTCTATCCTCATCGTCTCC 600
R K D S V V M L L H H V V T L I L I V S
601 TCCTACGCTTCCGGTACCACAATGTGGCATCCTTGTGCTCTTCTGCACGATATCAGT 660
S Y A F R Y H N V G I L V L F L H D I S
661 GACGTGCAGCTTGAAGTCCCAAGCTCAACATTTACTTCAAGTCCCGCGGGCTCCTAC 720
D V Q L E F T K L N I Y F K S R G G S Y
721 CATCGGCTGCATGCTTGGCAGCAGACTGGGCTGCTCAGCTTCGGCTTCAGCTGGTTC 780
H R L H A L A A D L G C L S F G F S W F
781 TGGTTCGCTCTACTGGTTCGGCTCAAGGTCCTGTATGCCACGCTCACTGCAGTCTG 840
W F R L Y W F P L K V L Y A T S H C S L
841 CGCACGGTGCCTGACATCCCTTCTACTTCTTCTCAATGCGCTCCTGTGCTGCTCACC 900
R T V P D I P F Y F F N A L L L L L T
901 CTTATGAACCTCTACTGGTTCCTGTACATCGTGGCGTTTGCAGCAAGGTGTTGACAGGC 960
L M N L Y W F L Y I V A F A A K V L T G
961 CAGGTGCAGAGCTGAAGGACCTGCGGGAGTATGACACAGCGAGGCCAGGCTGAAG 1020
Q V H E L K D L R E Y D T A E A Q S L K
1021 CCCAGCAAAGCCGAGAAGCCACTGAGGAACGGCTGGTGAAGGACAAGCGCTTCTGAACC 1080
P S K A E K P L R N G L V K D K R F
1081 CCTCGGCCCCCGCCCCGTGGACCCGCCCCACCCCGAATACCCGGCCACGCTCCCCGTC 1140
1141 CTTGGCGCCCCCTCCACCCCTCCAACTCTGCTCTCTAGGGCCGCGCCACCTCCCCTG 1200
1201 GGACCCCGCCCCCTCATCCTGCTCCATTTCGCGCCACGCCCCCAGGACCCCTGCCCC 1260
1261 TCCGGGGACACCGCCCCCGCTCAGCCCACTGGTCCCGGGCCGCGCGGACCTGCGCA 1320
1321 CTCTCTGCTCATCGCTGGGAGGAAGATGCCACCGCCGAGCAAGGTCCCTGCGGCCACC 1380
M P P P Q Q G P C G H H
1381 ACCTCTCTCTCTCTGGCCCTGCTGCTGCCCTGCTGCCCTGACCCGCGCCCCGTC 1440
L L L L L A L L L P S L P L T R A P V P
1441 CCCAGGCCCGAGCGCGCCCTGCTCCAGGCTCTAGGACTGCGCGATGAGCCCCAGGGTG 1500
P G P A A A L L Q A L G L R D E P Q G A
1501 CCCCCAGGCTCCGCGCGGTTCGCCCGCTCATGTGGCGCTGTTTCGACGCGGGGACCCCC 1560
P R L R P V P P V M W R L F R R R D P Q
1561 AGGAGACCAGTCTGGCTCGCGCGGACGTCGCCAGGGTCAACCTGCAACCGTGGCACG 1620
E T R S G S R R T S P G V T L Q P C H V
1621 TGGAGGAGCTGGGGTTCGCGGAAACATCGTGCACATCCCGGACCGCGGTGCGCCCA 1680
E E L G V A G N I V R H I P D R G A P T
1681 CCGGGGCTCGGAGCTGTCTCGCGCGGGGCTGCGCTGAGTGGACAGTGTCTTCG 1740
R A S E P V S A A G H C P E W T V V F D
1741 ACCTGTGCGGTGGAACCGCTGAGCGCCGAGCGGGCCGCTGGAGCTGCGTTTCG 1800
L S A V E P A E R P S R A R L E L R F A
1801 CGGCGCGGGCGGCGGACGCCCGGAGGGCGGCTGGGAGCTGAGCGTGGCGCAAGCGGGCC 1860
A A A A A A P E G G W E L S V A Q A G Q
1861 AGGGCGCGGGCGGACCCCGGGCGGTGCTGCTCCGCGAGTTGGTGGCCGCGCTGGGGC 1920
G A G A D P G P V L L R Q L V P A L G P
1921 CGCCAGTGCAGCGGAGCTGCTGGCGCGGCTGGGCTCGCAACGCTCATGGCCGCGCA 1980
P V R A E L L G A A W A R N A S W P R S
1981 GCCTCCGCTGGCGCTGGCGCTACGCCCGGGGCCCCCTGCGGCTGCGCGCGCTGGCGG 2040
L R L A L A L R P R A P A A C A R L A E
2041 AGGCTCGCTGCTGTTGACCTCGACCCGCGCTGTGCCACCCCTGGCCCGGGCGG 2100
A S L L L V T L D P R L C H P L A R P R
2101 GGCGGACGCCGAACCGTGTGGGCGGGCGGGCGGCTTGTGCGCGGGCGGGC 2160
R D A E P V L G G P G G A C R A R R L
2161 TGTACGTGAGCTTCCGCGAGGTGGGCTGGCACCCTGGGTGCTGCGCGCGCGGCTTCC 2220
Y V S F R E V G W H R W V I A P R G F L
2221 TGGCAACTACTGCCAGGTGCTGCGCGCTGCGGCTGCGGCTGTCGGGGTCCGGGGGG 2280
A N Y C Q G Q C A L P V A L S G S G G P
2281 CGCCGGCGCTCAACCAGCTGTGCTGCGCGGCTCATGCACGCGGGCGCCCCGGGAGCCG 2340
P A L N H A V L R A L M H A A A P G A A
2341 CCGACCTGCGCTGCTGCGTGGCGCGGCTGTGCGCCATCTCCGTGCTTCTTTGACA 2400
D L P C C V P A R L S P I S V L F D N
2401 ACAGCGACAAGTGGTGGCGGAGTATGAGGACATGGTGGTGGAGGAGTGGCGGTGCC 2460
S D N V V L R Q Y E D M V V D E C G C R
2461 GCTAACCCGGGGCGGGCAGGACGCGGGCCCAACAATAATGCCGCGTGG 2510

Fig 11B

human

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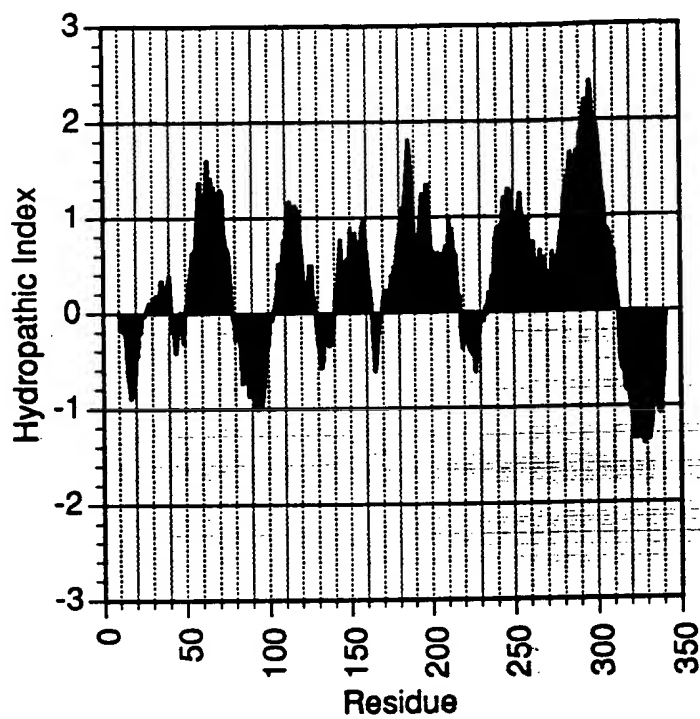


Fig 12

Fig 13a

	1		60
mUOG-1	MAAAAATERLEAPEPMPSYAQMLQRSWASALAAAGCGDCGWGLARRGLAEHAHLAAPEL		
hUOG-1	MAAAGPAAGPTGPEPMPSYAQIVORGWSALAAARGCTDCGWGLARRGLAEHAHLAPPEL		
	1		60
	61		120
mUOG-1	LLAVLCALGWTALRWAATTHIFRPLAKRCRLQPRDAARLPESAWKLLFYLLACWSYCAVLL		
hUOG-1	LLLALGALGWTALRSAATARLFRPLAKRCCLOPRDAAKMPESAWKFLFYLGWSYSAYLL		
	61		120
	121		180
mUOG-1	LGTSYPFFHDPPSVFYDWRSGMAVPWDIAVAYLLQGSFYCHSIYATVYMDSWRKDSVVML		
hUOG-1	FGTDYPFFHDPPSVFYDWTGMAVPRDIAAAYLLQGSFYGHSIYATLYMDTWRKDSVVML		
	121		180
	181		240
mUOG-1	VHHVVTLLLIASSYAFRYHNVGILLVFFLHDVSDVQLEFTKLNIFYKARGGAYHRLHGLVA		
hUOG-1	LHHVVTLLILIVSSYAFRYHNVGILVLFLLHDISDVQLEFTKLNIFYKSRGGSYHRLHALAA		
	181		240
	241		300
mUOG-1	NLGCLSFCEFCWFWFRLYWFPLKVLVYATCHCSLQSVDPIDPYFFFNILLLLLMVMNIYWFL		
hUOG-1	DLGCLSFGEFSWFWFRLYWFPLKVLVYATSHCSLRTVPDIPFYFFFNALLLLLTLMNLYWFL		
	241		300
	301		350
mUOG-1	YIVAFAAKVLTGQMLEDLREYDTLEAQTAKPCKAEKPLRNGLVKDKLF		
hUOG-1	YIVAFAAKVLTGQVHELKDLREYDTAEAQSLKPSKAEKPLRNGLVKDKRF		
	301		350

Fig 13b

06/09/0002

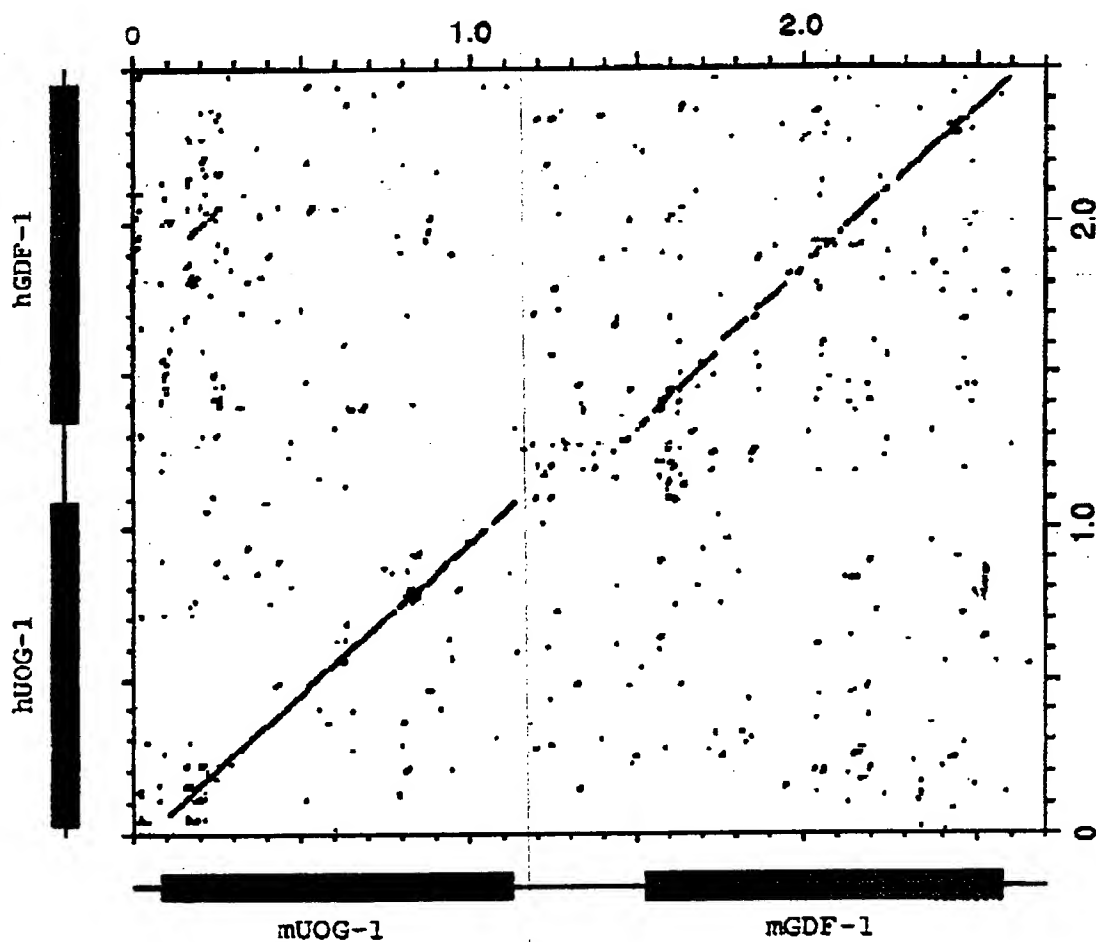


Fig 13c

06/09/82

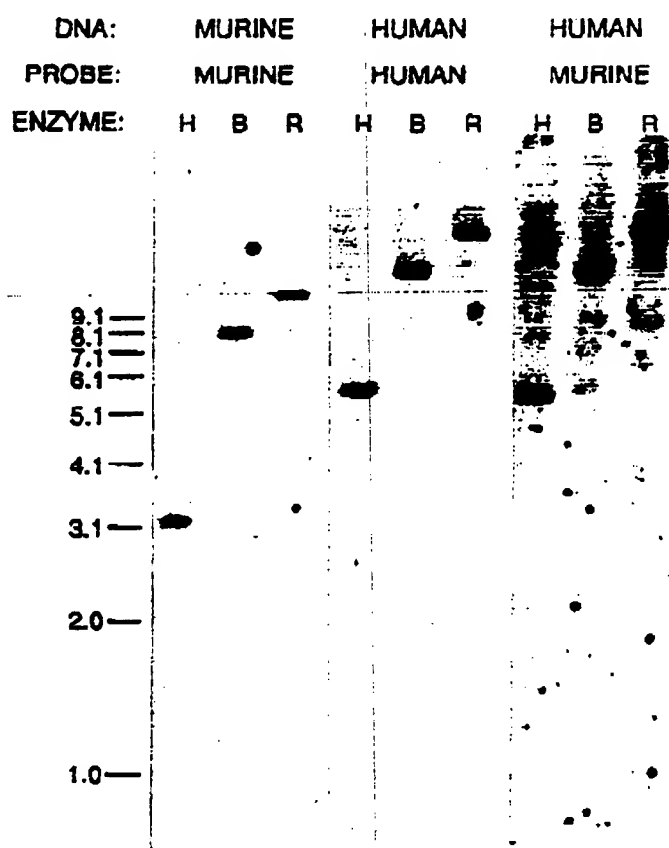


Fig 14